

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/FR 03/03025

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F02D41/40

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F02D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 082 325 A (PISCHINGER STEFAN ET AL) 4 July 2000 (2000-07-04) abstract column 3, line 34 - line 50 column 7, line 4 - line 38 figure 3	1,2,5-7
Y	DE 199 23 299 A (BOSCH GMBH ROBERT) 23 November 2000 (2000-11-23) column 1, line 43 - line 47 column 3, line 22 - line 24 column 3, line 52 - line 61	1,2,5-7
A	US 6 412 276 B1 (LE TALLEC PATRICE ET AL) 2 July 2002 (2002-07-02) abstract column 2, line 51 - column 3, line 29 figure 3	1

-/--

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

2 March 2004

Date of mailing of the international search report

12/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Röttger, K

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/FR 03/03025

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 04, 31 August 2000 (2000-08-31) & JP 2000 018074 A (TOYOTA MOTOR CORP), 18 January 2000 (2000-01-18) abstract -----	1
A	EP 1 035 315 A (MAZDA MOTOR) 13 September 2000 (2000-09-13) figure 14 column 29, line 17 - line 36 column 33, line 5 - line 14 -----	1

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/FR 03/03025

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6082325	A	04-07-2000	DE	19750226 C1	29-10-1998
			EP	0916829 A2	19-05-1999
DE 19923299	A	23-11-2000	DE	19923299 A1	23-11-2000
			CN	1306604 T	01-08-2001
			WO	0071879 A1	30-11-2000
			EP	1099053 A1	16-05-2001
			JP	2003500596 T	07-01-2003
US 6412276	B1	02-07-2002	FR	2792036 A1	13-10-2000
			EP	1086304 A1	28-03-2001
			WO	0060228 A1	12-10-2000
			JP	2002541373 T	03-12-2002
JP 2000018074	A	18-01-2000	JP	3358545 B2	24-12-2002
EP 1035315	A	13-09-2000	JP	2000320386 A	21-11-2000
			EP	1035315 A2	13-09-2000

**THIS PAGE BLANK (USP10)**